

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
		S25 and (fpc or "flexible printed circuit)	US-PGPUB; USPAT	AND	ON	2007/10/01 10:26

## EAST Search History

L1	87	<p>(US-20030125080-\$ or US-20030109232-\$ or US-20070010289-\$ or US-20050001905-\$ or US-20040240845-\$ or US-20050277437-\$ or US-20050275623-\$ or US-20060240700-\$ or US-20060238637-\$ or US-20060209505-\$ or US-20060142053-\$ or US-20060108588-\$ or US-20060097988-\$ or US-20060170651-\$ or US-20040212956-\$ or US-20040209645-\$ or US-20040204065-\$ or US-20060203439-\$ or US-20060199729-\$ or US-20050041136-\$ or US-20050037821-\$ or US-20050035912-\$ or US-20050026656-\$ or US-20050024500-\$ or US-20050233766-\$ or US-20050205291-\$). did. or (US-20050195576-\$ or US-20050275751-\$ or US-20050253923-\$ or US-20050239520-\$ or US-20050235021-\$ or US-20070004477-\$ or US-20070004250-\$ or US-20050177978-\$ or US-20050128322-\$ or US-20050094025-\$ or US-20050014538-\$ or US-20040203535-\$ or US-20030227564-\$ or US-20030064685-\$ or US-20060217148-\$ or US-20060046776-\$ or US-20060044442-\$ or US-20060040712-\$ or US-20050050686-\$ or US-20050041862-\$ or US-20060044407-\$ or US-20040051626-\$ or US-20040048632-\$ or US-20020180867-\$ or US-20020142798-\$ or US-20020089589-\$ or US-20020067408-\$). did. or (US-20020061767-\$ or US-20050101358-\$ or US-20050085280-\$ or US-20050064264-\$ or US-20050052558-\$ or US-20070037040-\$ or US-20060079302-\$ or US-20060056837-\$). did. or (US-7176961-\$ or US-7146200-\$ or US-7127271-\$ or US-7184092-\$ or US-6999802-\$ or US-6882864-\$ or US-7003318-\$ or US-6452626-\$ or US-7155266-\$ or US-7131871-\$ or US-7058433-\$ or US-7034755-\$ or US-7002621-\$ or US-6900981-\$ or US-6865076-\$ or US-6862036-\$). did. or (US-2162908-\$). did. or (EP-1667409-\$ or EP-1469656-\$). did. or (JP-2004207928-\$ or JP-2005142998-\$). did. or (TW-220836-B-\$ or US-20040203535-A-\$ or WO-2006065485-A-\$ or KR-2006020279-\$ or WO-2005071851-A-\$ or KR-2005030704-\$ or US-20050026656-A-\$ or KR-2004107690-\$ or EP-1484920-A-\$ or EP-1455505-A-\$ or JP-2004221775-\$ or US-20030227564-A-\$ or US-20030267121-A-\$ or US-20030267122-A-\$) </p>	US-PGPUB; AND USPAT; USOCP; EPO; JPO; DERVENT	ON	2008/06/24 08:56
6/24/2008 3:36:18 PM		EP-1455505-A-\$ or JP-2004221775-\$ or US-20030227564-A-\$ or US-20030267121-A-\$ or US-20030267122-A-\$)			Page 2 C:\Documents and Settings\...\\10664387(2).wsp

## EAST Search History

L2	21	1 and @ad< "20030107"	US-PPGPUB; USPAT; EPO; JPO	AND	ON	2008/06/24 09:00
L3	4	2 and (flash or led or strobe)	US-PPGPUB; USPAT; EPO; JPO	AND	ON	2008/06/24 09:02

## EAST Search History

L101	551	(US-20030016284-\$ or US-20040080642-\$ or US-20040056971-\$ or US-2007007115-\$ or US-20070070228-\$ or US-20070069395-\$ or US-20070069105-\$ or US-20070065128-\$ or US-20070057150-\$ or US-20070057148-\$ or US-20070054419-\$ or US-20070053685-\$ or US-20070047952-\$ or US-20070047109-\$ or US-20070045551-\$ or US-20070045550-\$ or US-20070040932-\$ or US-20070035785-\$ or US-20070034782-\$ or US-20070029466-\$ or US-20070025715-\$ or US-20070019950-\$ or US-20070019102-\$ or US-20070019101-\$ or US-20060268157-\$ or US-20060266835-\$). did. or (US-20060257131-\$ or US-20060252246-\$ or US-20060244859-\$ or US-20060243884-\$ or US-20060239671-\$ or US-20060140609-\$ or US-20060231750-\$ or US-20060228103-\$ or US-20060228099-\$ or US-20060227236-\$ or US-20060221469-\$ or US-20060219862-\$ or US-20060209365-\$ or US-20060209205-\$ or US-20060204243-\$ or US-20060203875-\$ or US-20060203095-\$ or US-20060202318-\$ or US-20060197862-\$ or US-20060189216-\$ or US-20060189183-\$ or US-20060187337-\$ or US-20060181633-\$ or US-20060171701-\$ or US-20060171698-\$ or US-20060170814-\$ or US-20060164539-\$). did. or (US-20060163461-\$ or US-20060152826-\$ or US-20060152614-\$ or US-20060152576-\$ or US-20060141226-\$ or US-20060140459-\$ or US-20060139482-\$ or US-20060133794-\$ or US-20060133655-\$ or US-20060132935-\$ or US-20060132644-\$ or US-20060056042-\$ or US-20060044455-\$ or US-20060043513-\$ or US-20060042064-\$ or US-20060291853-\$ or US-20060290802-\$ or US-20060290801-\$ or US-20060289733-\$ or US-20060284053-\$ or US-20060280499-\$ or US-20060276059-\$ or US-20060270094-\$ or US-20060269268-\$ or US-20060126194-\$ or US-20060098869-\$ or US-20060125925-\$). did. or (US-20060119730-\$ or US-20060114496-\$ or US-20070071437-\$ or US-200601114344-\$ or US-20060109567-\$ or US-20060109368-\$ or US-20070058270-\$ or	US-PGPUB; AND USPAT	ON	2008/06/24 09:47
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## EAST Search History

L123	551	(US-20030016284-\$ or US-20040080642-\$ or US-20040056971-\$ or US-2007007115-\$ or US-20070070228-\$ or US-20070069395-\$ or US-20070069105-\$ or US-20070065128-\$ or US-20070057150-\$ or US-20070057148-\$ or US-20070054419-\$ or US-20070053685-\$ or US-20070047952-\$ or US-20070047109-\$ or US-20070045551-\$ or US-20070045550-\$ or US-20070040932-\$ or US-20070035785-\$ or US-20070034782-\$ or US-20070029466-\$ or US-20070025715-\$ or US-20070019950-\$ or US-20070019102-\$ or US-20070019101-\$ or US-20060268157-\$ or US-20060266835-\$). did. or (US-20060257131-\$ or US-20060252246-\$ or US-20060244859-\$ or US-20060243884-\$ or US-20060239671-\$ or US-20060140609-\$ or US-20060231750-\$ or US-20060228103-\$ or US-20060228099-\$ or US-20060227236-\$ or US-20060221469-\$ or US-20060219862-\$ or US-20060209365-\$ or US-20060209205-\$ or US-20060204243-\$ or US-20060203875-\$ or US-20060203095-\$ or US-20060202318-\$ or US-20060197862-\$ or US-20060189216-\$ or US-20060189183-\$ or US-20060187337-\$ or US-20060181633-\$ or US-20060171701-\$ or US-20060171698-\$ or US-20060170814-\$ or US-20060164539-\$). did. or (US-20060163461-\$ or US-20060152826-\$ or US-20060152614-\$ or US-20060152576-\$ or US-20060141226-\$ or US-20060140459-\$ or US-20060139482-\$ or US-20060133794-\$ or US-20060133655-\$ or US-20060132935-\$ or US-20060132644-\$ or US-20060056042-\$ or US-20060044455-\$ or US-20060043513-\$ or US-20060042064-\$ or US-20060291853-\$ or US-20060290802-\$ or US-20060290801-\$ or US-20060289733-\$ or US-20060284053-\$ or US-20060280499-\$ or US-20060276059-\$ or US-20060270094-\$ or US-20060269268-\$ or US-20060126194-\$ or US-20060098869-\$ or US-20060125925-\$). did. or (US-20060119730-\$ or US-20060114496-\$ or US-20070071437-\$ or US-200601114344-\$ or US-20060109567-\$ or US-20060109368-\$ or US-20070058270-\$ or	US-PGPUB; AND USPAT	ON	2008/06/24 09:48

## EAST Search History

L124	79	101 and (flash or led or strobe)	US-PGPUB; USPAT; EPO; JPO	AND	ON	2008/06/24 09:48
L125	1	"6741286".pn. and (flexible or printed or fpc or pcb)	US-PGPUB; USPAT; EPO; JPO	AND	ON	2008/06/24 10:00
L126	1	("20050285973").PN.	US-PGPUB; USPAT	OR	OFF	2008/06/24 10:59
L127	0	126 and (led or flash or strobe)	US-PGPUB; USPAT	AND	ON	2008/06/24 11:00
L128	10	("20010010562" "20030016300" "20040027477" "20040041938" "5616050" "5973932" "6621616" "6654064" "7009654" "7046296").PN.	US-PGPUB; USPAT	AND	ON	2008/06/24 11:01
L129	0	128 and (led or flash or strobe)	US-PGPUB; USPAT	AND	ON	2008/06/24 11:03
L130	9	("20020171031" "20030016300" "20030218251" "20040027477" "20040041938" "20040094825" "20040132491" "6384397" "6603107").PN.	US-PGPUB; USPAT	AND	ON	2008/06/24 11:03
L131	1	130 and (led or flash or strobe)	US-PGPUB; USPAT	AND	ON	2008/06/24 11:07
L132	10	("20010010562" "20030016300" "20040027477" "20040041938" "5616050" "5973932" "6621616" "6654064" "7009654" "7046296").PN.	US-PGPUB; USPAT	AND	ON	2008/06/24 11:08
L133	1	("5748441").PN.	US-PGPUB; USPAT	AND	ON	2008/06/24 11:09
L134	3	("5801919" "5815759" "6788960").PN.	US-PGPUB; USPAT	AND	ON	2008/06/24 11:09
L135	1	134 and (led or flash or strobe)	US-PGPUB; USPAT	AND	ON	2008/06/24 11:10
L136	0	(nicolas same giles).xa.	US-PGPUB; USPAT	AND	ON	2008/06/24 11:11
L137	53	(nicholas same giles).xa.	US-PGPUB; USPAT	AND	ON	2008/06/24 11:11
L138	3	(ho\$kyoum same kim).in. or (in\$soon same yu).in. or (gwan\$ha same jeong).in.	US-PGPUB; USPAT	AND	ON	2008/06/24 11:25
L139	1	138 and (led)	US-PGPUB; USPAT	AND	ON	2008/06/24 11:27
L140	10	(fpc and led and pcb).clm.	US-PGPUB; USPAT	AND	ON	2008/06/24 11:27
L141	0	(len and housing and pcb and motherboard and (image adj sensor)).clm.	US-PGPUB; USPAT	AND	ON	2008/06/24 11:30
L142	0	(lens and housing and pcb and motherboard and (image adj sensor)).clm.	US-PGPUB; USPAT	AND	ON	2008/06/24 11:30

## EAST Search History

L143	21	(lens and housing and pcb and (image adj sensor)).clm.	US-PGPUB; USPAT	AND	ON	2008/06/24 11:30
L144	8	(lens and housing and pcb and (image adj sensor) and led).clm.	US-PGPUB; USPAT	AND	ON	2008/06/24 11:30
L145	1	("6060722").PN.	US-PGPUB; USPAT	OR	OFF	2008/06/24 13:36
L148	0	"7130591".pn. and (camera or imag\$4)	US-PGPUB; USPAT	AND	ON	2008/06/24 13:51
L150	1	"6829490".pn. and (camera or imag\$4)	US-PGPUB; USPAT	AND	ON	2008/06/24 13:51

## EAST Search History

## EAST Search History

S2	144	S1 and (flash or led or strobe)	US-PPGPUB; USPAT; EPO; JPO	AND	ON	2007/09/27 09:48
S3	34	S2 and @ad<"20030107"	US-PPGPUB; USPAT; EPO; JPO	AND	ON	2007/09/27 09:43

EAST Search History

## EAST Search History

S5	24	S4 and @ad<"20030107"	US-PGPUB; USPAT; USOCP; EPO; JPO; DERWENT	AND	ON	2007/09/27 09:49
S6	4	S5 and (flash or led or strobe)	US-PGPUB; USPAT; EPO; JPO	AND	ON	2007/09/27 09:50

## EAST Search History

S7	371	<p>(US-20050052568-\$ or US-20040227848-\$ or US-20010029167-\$ or US-20070010289-\$ or US-20070053682-\$ or US-20070036533-\$ or US-20070035859-\$ or US-20070035858-\$ or US-20070035851-\$ or US-20070035206-\$ or US-20060017834-\$ or US-20050285970-\$ or US-20050275314-\$ or US-20050259155-\$ or US-20050237625-\$ or US-20050231817-\$ or US-20050225877-\$ or US-20070036534-\$ or US-20070077049-\$ or US-20070058070-\$ or US-20070047942-\$ or US-20070040924-\$ or US-20070035210-\$ or US-20070030573-\$ or US-20070019950-\$). did. or (US-20070008321-\$ or US-20070002455-\$ or US-20060274186-\$ or US-20060238075-\$ or US-20060238074-\$ or US-20060232169-\$ or US-20060222355-\$ or US-20060221472-\$ or US-20060221458-\$ or US-20060215281-\$ or US-20060209205-\$ or US-20060181748-\$ or US-20060181632-\$ or US-20060177210-\$ or US-20060172762-\$ or US-20060152818-\$ or US-20060152814-\$ or US-20060127077-\$ or US-20060125950-\$ or US-20060125925-\$ or US-20060119218-\$ or US-20060103893-\$ or US-20060103374-\$ or US-20060062559-\$ or US-20060056036-\$ or US-20060056035-\$ or US-20060049720-\$). did. or (US-20060045374-\$ or US-20060044455-\$ or US-20060041591-\$ or US-2006008129-\$ or US-20050275315-\$ or US-20050258709-\$ or US-20050213653-\$ or US-20050212069-\$ or US-20050185947-\$ or US-20050128323-\$ or US-20050073752-\$ or US-20050046735-\$ or US-20040141086-\$ or US-20040136088-\$ or US-20040130647-\$ or US-20040105020-\$ or US-20040080632-\$ or US-20040051960-\$ or US-20030219244-\$ or US-20030214726-\$ or US-20030071901-\$ or US-20070065131-\$ or US-20050041098-\$ or US-20050030408-\$ or US-20050007484-\$ or US-20040125227-\$ or US-20030076436-\$). did. or (US-20070047103-\$ or US-20070035205-\$ or US-20070008418-\$ or US-20060285223-\$ or US-20060279853-\$ or US-20060274427-\$ or US-20060279732-\$ or US-20060279732-\$ or US-20060279732-\$ or US-20060246945-\$ or US-20060246945-\$ or US-20060246945-\$ or US-20060246945-\$) </p>	US-PGPUB; AND USPAT; USOCP; EPO; JPO; DERVENT	ON	2007/09/27 09:49
6/24/2008 3:36:18 PM		or US-20060279732-\$ or US-20060279732-\$ or US-20060279732-\$ or US-20060246945-\$ or US-20060246945-\$ or US-20060246945-\$ or US-20060246945-\$			

## EAST Search History

S8	0	I47 and @ad<"20030107"	US-PPGPUB; USPAT; USOOR; EPO; JPO; DERWENT	AND	ON	2007/09/27 09:49
S9	36	S7 and @ad<"20030107"	US-PPGPUB; USPAT; USOOR; EPO; JPO; DERWENT	AND	ON	2007/09/27 09:53
S10	6	S9 and (flash or led or strobe)	US-PPGPUB; USPAT; EPO; JPO	AND	ON	2007/09/27 09:53

EAST Search History

## EAST Search History

S12	46	S11 and @ad<"20030107"	US-PGPUB; USPAT; USOCP; EPO; JPO; DERWENT	AND	ON	2007/09/27 09:57
S13	24	S12 and (flash or led or strobe)	US-PGPUB; USPAT; EPO; JPO	AND	ON	2007/09/27 09:57

## EAST Search History

S14	123	(US-20040207823-\$ or US-20070066300-\$ or US-20040246373-\$ or US-20070013774-\$ or US-20050245288-\$ or US-20070041630-\$ or US-20040110474-\$ or US-20040085745-\$ or US-20040174430-\$ or US-20050280730-\$ or US-20050175257-\$ or US-20050173616-\$ or US-20040061034-\$ or US-20040075620-\$ or US-20050168566-\$ or US-20050164752-\$ or US-20070008495-\$ or US-20050151877-\$ or US-20050151849-\$ or US-20050128299-\$ or US-20050122413-\$ or US-20040207722-\$ or US-20060146009-\$ or US-20040119824-\$ or US-20040116168-\$ or US-20050021803-\$). did. or (US-20060189349-\$ or US-20060189348-\$ or US-20060251408-\$ or US-20060246945-\$ or US-20060239575-\$ or US-20040157564-\$ or US-20060187328-\$ or US-20060223488-\$ or US-20060221207-\$ or US-20060135224-\$ or US-20040150723-\$ or US-20040056981-\$ or US-20040056977-\$ or US-20050275751-\$ or US-20060114336-\$ or US-20050231607-\$ or US-20060210142-\$ or US-20050018050-\$ or US-20050062885-\$ or US-20040135879-\$ or US-20060033809-\$ or US-20060126894-\$ or US-20040218082-\$ or US-20060279652-\$ or US-20050083418-\$ or US-20040203608-\$ or US-20050107141-\$). did. or (US-20050001905-\$ or US-20040179091-\$ or US-20040183931-\$ or US-20040190614-\$ or US-20040196390-\$ or US-20050202851-\$ or US-20050102376-\$ or US-20050099653-\$ or US-20040090554-\$ or US-20040017479-\$ or US-20040014490-\$ or US-20040009789-\$ or US-20040008266-\$ or US-20040005915-\$ or US-20030222988-\$ or US-20030222980-\$ or US-20030214727-\$ or US-20030193603-\$ or US-20030186708-\$ or US-20030122940-\$ or US-20030090753-\$ or US-20060072003-\$ or US-20030052964-\$ or US-20030069038-\$ or US-20020142798-\$ or US-20020061767-\$ or US-20020058536-\$). did. or (US-20020057473-\$ or US-20020003571-\$ or US-20010053703-\$ or US-20010029167-\$ or US-2001004598-\$ or US-20020072196-\$).	US-PGPUB; AND USPAT	ON	2007/09/27 09:57
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## EAST Search History

S15	42	S14 and @ad<"20030107"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2007/09/27 09:57
S16	19	S15 and (flash or led or strobe)	US-PGPUB; USPAT; EPO; JPO	AND	ON	2007/09/27 10:00
S17	0	"6704586".pn. and (led of flash or strobe)	US-PGPUB; USPAT; EPO; JPO	AND	ON	2007/09/27 10:01
S18	1	("6060722").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/27 10:02
S19	0	S18 and (cellular or mobile or terminal or cell or phone or telephone)	US-PGPUB; USPAT	AND	ON	2007/09/27 10:03
S20	318915	(cellular or mobile or terminal or phone or telephone) and (flash or strobe or led or "light emitting device")	US-PGPUB; USPAT	AND	ON	2007/09/27 10:04
S21	180941	(cellular or mobile or terminal or phone or telephone) and (flash or strobe)	US-PGPUB; USPAT	AND	ON	2007/09/27 10:41
S22	98375	S21 and @ad<"20030107"	US-PGPUB; USPAT	AND	ON	2007/09/27 11:26
S23	544	S22 and (fpc or "flexible printed circuit")	US-PGPUB; USPAT	AND	ON	2007/09/27 10:05
S24	46	("flexible printed circuit" or fpc) with (flash or strobe or led or "light emitting diode") with (sensor or imager or camera or ccd or cmos)	US-PGPUB; USPAT	AND	ON	2007/09/27 10:50
S25	177	(348/211.2).OCLS.	US-PGPUB; USPAT	OR	OFF	2007/09/27 10:50
S26	1	S25 and (fpc or "flexible printed circuit")	US-PGPUB; USPAT	AND	ON	2007/09/27 10:52
S27	1	("20010036845").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/27 10:52
S28	3344	(455/556.1,556.2,557).OCLS.	US-PGPUB; USPAT	OR	OFF	2007/09/27 10:52
S29	24	S28 and (fpc or "flexible printed circuit")	US-PGPUB; USPAT	AND	ON	2007/09/27 10:53
S30	5	("5666159"   "5982853"   "6069648"   "6259407"   "6308084").PN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/09/27 11:00
S31	92012	("455").CLAS.	US-PGPUB; USPAT	OR	OFF	2007/09/27 11:00
S32	5374	S31 and (camera or imager or "image sensor" or ccd or "imaging device")	US-PGPUB; USPAT	AND	ON	2007/09/27 11:01
S33	82	S32 and (fpc or "flexible printed circuit")	US-PGPUB; USPAT	AND	ON	2007/09/27 11:01

## EAST Search History

S34	61	S33 not S29	US-PGPUB; USPAT	AND	ON	2007/09/27 11:01
S35	23	S34 and (flash or strobe or led or "light emitting device")	US-PGPUB; USPAT	AND	ON	2007/09/27 11:05
S36	3	("20030064685" "20040023684" "5491507").PN.	US-PGPUB; USPAT	AND	ON	2007/09/27 11:07
S37	1	("6879337").PN.	US-PGPUB; USPAT	AND	ON	2007/09/27 11:07
S38	1	("20040051779").PN.	US-PGPUB; USPAT	AND	ON	2007/09/27 11:07
S39	4	("20020173281"   "5926748"   "6208874"   "6782273").PN.	US-PGPUB; USPAT; USOOR	AND	ON	2007/09/27 11:25
S40	693	(fpc or "flexible printed circuit") with (flash or strobe or led)	US-PGPUB; USPAT; USOOR	AND	ON	2007/09/27 11:40
S41	246	S40 and (phone or mobile or cellular)	US-PGPUB; USPAT; USOOR	AND	ON	2007/09/27 11:26
S42	94	S41 and @ad<"20030107"	US-PGPUB; USPAT	AND	ON	2007/09/27 11:26
S43	176	(pcb or "printed circuit board") with (flash or strobe) same (sensor or cod or imager or "imaging device" or "image pickup device")	US-PGPUB; USPAT; USOOR	AND	ON	2007/09/27 11:42
S44	90	S43 and @ad<"20030107"	US-PGPUB; USPAT; USOOR	AND	ON	2007/09/27 11:52
S45	90	S44 not S42	US-PGPUB; USPAT; USOOR	AND	ON	2007/09/27 11:42

## EAST Search History

S46	551	<p>(US-20030016284-\$ or US-20040080642-\$ or US-20040056971-\$ or US-20070070511-\$ or US-20070070228-\$ or US-20070069395-\$ or US-20070069105-\$ or US-20070065128-\$ or US-20070057150-\$ or US-20070057148-\$ or US-20070054419-\$ or US-20070053685-\$ or US-20070047952-\$ or US-20070047109-\$ or US-20070045551-\$ or US-20070045550-\$ or US-20070040932-\$ or US-20070035785-\$ or US-20070034782-\$ or US-20070029466-\$ or US-20070025715-\$ or US-20070019950-\$ or US-20070019102-\$ or US-20070019101-\$ or US-20060268157-\$ or US-20060266835-\$). did. or (US-20060257131-\$ or US-20060252246-\$ or US-20060244859-\$ or US-20060243884-\$ or US-20060239671-\$ or US-20060140609-\$ or US-20060231750-\$ or US-20060228103-\$ or US-20060228099-\$ or US-20060227236-\$ or US-20060221469-\$ or US-20060219862-\$ or US-20060209365-\$ or US-20060209205-\$ or US-20060204243-\$ or US-20060203875-\$ or US-20060203095-\$ or US-20060202318-\$ or US-20060197862-\$ or US-20060189216-\$ or US-20060189183-\$ or US-20060187337-\$ or US-20060181633-\$ or US-20060171701-\$ or US-20060171698-\$ or US-20060170814-\$ or US-20060164539-\$). did. or (US-20060163461-\$ or US-20060152826-\$ or US-20060152614-\$ or US-20060152576-\$ or US-20060141226-\$ or US-20060140459-\$ or US-20060139482-\$ or US-20060133794-\$ or US-20060133655-\$ or US-20060132935-\$ or US-20060132644-\$ or US-20060056042-\$ or US-20060044455-\$ or US-20060043513-\$ or US-20060042064-\$ or US-20060291853-\$ or US-20060290802-\$ or US-20060290801-\$ or US-20060289733-\$ or US-20060284053-\$ or US-20060280499-\$ or US-20060276059-\$ or US-20060270094-\$ or US-20060269268-\$ or US-20060126194-\$ or US-20060098969-\$ or US-20060125925-\$). did. or (US-20060119730-\$ or US-20060114496-\$ or US-20070071437-\$ or US-200601114344-\$ or US-20060109567-\$ or US-20060109368-\$ or US-20070058270-\$ or US-20070058271-\$ or US-20070058272-\$ or US-20060109352-\$ or US-20070053682-\$ or US-20060108352-\$ or US-20060108353-\$ or US-20070058273-\$ or US-20070058274-\$) </p>	US-PGPUB; AND USPAT	ON	2007/09/27 11:52
6/24/2008 3:36:18 PM					Page 19

## EAST Search History

S47	172	S46 and @ad<"20030107"	US-PGPUB; USPAT; USOCR	AND	ON	2007/09/27 11:52
S48	8	S47 and (pcb or "printed circuit board" or fpc or "flexible printed circuit") and (flash or strobe or led or "light emitting diode")	US-PGPUB; USPAT; USOCR	AND	ON	2007/09/27 12:50
S49	1257	(pcb or "printed circuit board" or fpc or "flexible printed circuit") and (flash or strobe or led or "light emitting diode")	FPRS; EPO; JPO	AND	ON	2007/09/27 12:51
S50	73	S49 and (camera or imager or "image pickup device" or "image sensor" or ccd)	FPRS; EPO; JPO	AND	ON	2007/09/27 12:51
S51	64	S50 and @pd<"20030107"	FPRS; EPO; JPO	AND	ON	2007/09/27 13:13
S52	312	(348/370).OCLS.	US-PGPUB; USPAT	OR	OFF	2007/09/27 13:08
S53	34	S1 and (pcb or fpc or "flexible printed circuit")	US-PGPUB; USPAT	AND	ON	2007/09/27 13:13
S54	277	(348/371).OCLS.	US-PGPUB; USPAT	OR	OFF	2007/09/27 13:14
S55	0	S54 and @ad<"20030107"	FPRS; EPO; JPO	AND	ON	2007/09/27 13:14
S56	0	S54 and @ad<"20030107"	FPRS; EPO; JPO	AND	ON	2007/09/27 13:14
S57	180	S54 and @ad<"20030107"	US-PGPUB; USPAT	AND	ON	2007/09/27 13:41
S58	2074	(257/432-434).OCLS.	US-PGPUB; USPAT	OR	OFF	2007/09/27 13:41
S59	49	S58 and (fpc or "flexible printed circuit")	US-PGPUB; USPAT	AND	ON	2007/09/27 13:49
S60	5	("6211461"   "6342406"   "6476503"   "6580169"   "6731010").PN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/09/27 13:45
S61	66	S58 and (flash or strobe)	US-PGPUB; USPAT	AND	ON	2007/09/27 13:49
S62	21	S61 and @ad<"20030107"	US-PGPUB; USPAT	AND	ON	2007/09/27 13:51
S63	388	(348/374).OCLS.	US-PGPUB; USPAT	OR	OFF	2007/09/27 13:51
S64	75	S63 and (flash or strobe)	US-PGPUB; USPAT	AND	ON	2007/09/27 13:51
S65	58	S64 and @ad<"20030107"	US-PGPUB; USPAT	AND	ON	2007/09/27 14:14

## EAST Search History

S66	14	(US-20030066678-\$ or US-20030036365-\$ or US-20020064385-\$ or US-20010036845-\$ or US-20040023684-\$ or US-20020076360-\$ or US-20060017128-\$).did. or (US-6060722-\$ or US-6856765-\$ or US-6704586-\$ or US-6259407-\$ or US-6904298-\$ or US-6879337-\$ or US-6445417-\$).did.	US-PGPUB; USPAT	AND	ON	2007/09/27 14:09
S67	5	S66 and (flash or strobe)	US-PGPUB; USPAT	AND	ON	2007/09/27 14:12
S68	12	(phone same flash same camera).ab.	US-PGPUB; USPAT	AND	ON	2007/09/27 14:13
S69	0	"455.cls"	US-PGPUB; USPAT	AND	ON	2007/09/27 14:13
S70	92012	("455").CLAS.	US-PGPUB; USPAT	OR	OFF	2007/09/27 14:13
S71	454	S70 and (flash same led)	US-PGPUB; USPAT	AND	ON	2007/09/27 14:14
S72	310	S70 and (flash with led)	US-PGPUB; USPAT	AND	ON	2007/09/27 14:14
S73	0	I143and @ad<"20030107"	US-PGPUB; USPAT	AND	ON	2007/09/27 14:14
S74	171	S72 and @ad<"20030107"	US-PGPUB; USPAT	AND	ON	2007/09/27 14:15
S75	7	S74 and (camera if "imaging device" or "image pickup device" or "image sensor" or ccd or imager)	US-PGPUB; USPAT	AND	ON	2007/09/27 14:16
S76	20	S74 and (camera or "imaging device" or "image pickup device" or "image sensor" or ccd or imager)	US-PGPUB; USPAT	AND	ON	2007/09/27 14:16
S77	5	fpc with connect\$4 with (flash or led) with ("image sensor" or ccd or imager or "image pickup device" or sensor)	US-PGPUB; USPAT	AND	ON	2007/09/27 14:48
S78	4	("20020191102" "20040008274" "5463437 " "5895128").PN.	US-PGPUB; USPAT	AND	ON	2007/09/27 14:50
S79	3	("20040008274" "20040095505" "6088542 " ).PN.	US-PGPUB; USPAT	AND	ON	2007/09/27 14:51
S80	649	((mobile or phone or cellular or telephone) same (flash or led or strobe)).ab.	US-PGPUB; USPAT	AND	ON	2007/09/27 14:52
S81	433	S80 and @ad<"20030107"	US-PGPUB; USPAT	AND	ON	2007/09/27 14:52
S82	10	("4963987"   "5258800"   "5265273"   "5471242"   "5729291"   "5893037"   "6160967"   "6311023"   "6356717"   "6683644").PN.	US-PGPUB; USPAT; USOOR	AND	ON	2007/09/27 15:05
S83	0	"6823198" and (fpc or "flexible printed circuit")	US-PGPUB; USPAT; USOOR	AND	ON	2007/09/27 15:06

## EAST Search History

S84	0	"6823198".pn. and (fpc or "flexible printed circuit")	US-PGPUB; USPAT; USOCR	AND	ON	2007/09/27 15:23
S85	71596	("362").CLAS.	US-PGPUB; USPAT	OR	OFF	2007/09/27 15:23
S86	5883	S85 and (camera or imager or "image pickup device" or sensor)	US-PGPUB; USPAT	AND	ON	2007/09/27 15:24
S87	5982	S85 and (camera or imager or "image pickup device" or sensor or ccd)	US-PGPUB; USPAT	AND	ON	2007/09/27 15:25
S88	895	S87 and (pcb or "printed circuit board" or fpc or "flexible printed circuit")	US-PGPUB; USPAT	AND	ON	2007/09/27 15:25
S89	502	S88 and @ad<"20030107"	US-PGPUB; USPAT	AND	ON	2007/09/27 15:26
S90	3064	S85 and (camera or imager or "image pickup device" or "image sensor" or ccd)	US-PGPUB; USPAT	AND	ON	2007/09/27 15:25
S91	427	S90 and (pcb or "printed circuit board" or fpc or "flexible printed circuit")	US-PGPUB; USPAT	AND	ON	2007/09/27 15:25
S92	260	S91 and @ad<"20030107"	US-PGPUB; USPAT	AND	ON	2007/09/27 15:36
S93	141	(348/68).OCLS.	US-PGPUB; USPAT	OR	OFF	2007/09/27 15:36
S94	118	S93 and @ad<"20030107"	US-PGPUB; USPAT	AND	ON	2007/09/27 15:36
S95	10	S94 and ("circuit board" or pcb of fcb or "flexible printed circuit")	US-PGPUB; USPAT	AND	ON	2007/09/27 15:37
S96	24	S94 and ("circuit board" or pcb of fcb or "flexible printed circuit" or substrate)	US-PGPUB; USPAT	AND	ON	2007/09/27 15:48
S97	161	led with substrate with ("image sensor" or ccd or "image pickup device" or imager or "image pickup element")	US-PGPUB; USPAT	AND	ON	2007/09/27 15:50
S98	108009	("348").CLAS.	US-PGPUB; USPAT	OR	OFF	2007/09/27 15:50
S99	98875	("250").CLAS.	US-PGPUB; USPAT	OR	OFF	2007/09/27 15:51
S100	250386	("257").CLAS.	US-PGPUB; USPAT	OR	OFF	2007/09/27 15:51
S101	73	S97 and (S98 or S99 or S100)	US-PGPUB; USPAT	AND	ON	2007/09/27 16:03
S102	88	S97 not S101	US-PGPUB; USPAT	AND	ON	2007/09/27 16:03
S103	39	S102 and @ad<"20030107"	US-PGPUB; USPAT	AND	ON	2007/09/27 16:10
S104	281	(348/87).OCLS.	US-PGPUB; USPAT	OR	OFF	2007/09/27 16:12
S105	0	S104 and (fpc)	US-PGPUB; USPAT	AND	ON	2007/09/27 16:11

## EAST Search History

S10 6	1	S104 and ("flexible printed circuit")	US-PGPUB; USPAT	AND	ON	2007/09/27 16:11
S10 7	255	S104 and @ad<"20030107"	US-PGPUB; USPAT	AND	ON	2007/09/27 16:11
S10 8	43	(348/73).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/09/28 08:43
S10 9	4	S108 and "circuit board"	US-PGPUB; USPAT	AND	ON	2007/09/27 16:13
S11 0	25	(348/122).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/09/27 16:15
S11 1	108009	("348").CLAS.	US-PGPUB; USPAT	OR	OFF	2007/09/27 16:15
S11 2	21165	S111 and (flash or strobe or led)	US-PGPUB; USPAT	AND	ON	2007/09/27 16:15
S11 3	744	S111 and (flash or strobe or led) with (substrate or "circuit board" or fpc or pcb)	US-PGPUB; USPAT	AND	ON	2007/09/27 16:16
S11 4	148	S111 and ((flash or strobe or led) with (substrate or "circuit board" or fpc or pcb)) same ("image sensor" or ccd or "image pickup device" or imager or sensor)	US-PGPUB; USPAT	AND	ON	2007/09/27 16:17
S11 5	87	S114 and @ad<"20030107"	US-PGPUB; USPAT	AND	ON	2007/09/27 16:45
S11 6	97	("camera phone" or "phone camera") with (flash or strobe or led)	US-PGPUB; USPAT	AND	ON	2007/09/27 16:50
S11 7	3	S116 and @ad<"20030107"	US-PGPUB; USPAT	AND	ON	2007/09/27 16:46
S11 8	0	"6823198".pn. and flexible	US-PGPUB; USPAT	AND	ON	2007/09/27 17:34
S11 9	21	"348".clas. and "led substrate"	US-PGPUB; USPAT	AND	ON	2007/09/27 17:35
S12 0	10	"348".clas. and "led pcb"	US-PGPUB; USPAT	AND	ON	2007/09/27 17:37
S12 1	0	"348".clas. and "led fcb"	US-PGPUB; USPAT	AND	ON	2007/09/27 17:38
S12 2	0	"348".clas. and "led fpc"	US-PGPUB; USPAT	AND	ON	2007/09/27 17:38
S12 3	3263	led adj4 ("printed circuit board" or pcb or fpc or "flexible printed circuit")	US-PGPUB; USPAT	AND	ON	2007/09/27 17:39
S12 4	927	S123 and (camera or imager or "imaging device" or "image pickup device" or "image sensor" or ccd)	US-PGPUB; USPAT	AND	ON	2007/09/27 17:39
S12 5	425	S124 and @ad<"20030107"	US-PGPUB; USPAT	AND	ON	2007/09/27 17:42
S12 6	4244	silverbrook.in. or siverbrook.as.	US-PGPUB; USPAT	AND	ON	2007/09/27 17:43

## EAST Search History

S12 7	235	S125 not S126	US-PGPUB; USPAT	AND	ON	2007/09/27 17:43
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## EAST Search History

S12 8	551	(US-20030016284-\$ or US-20040080642-\$ or US-20040056971-\$ or US-20070070511-\$ or US-20070070228-\$ or US-20070069395-\$ or US-20070069105-\$ or US-20070065128-\$ or US-20070057150-\$ or US-20070057148-\$ or US-20070054419-\$ or US-20070053685-\$ or US-20070047952-\$ or US-20070047109-\$ or US-20070045551-\$ or US-20070045550-\$ or US-20070040932-\$ or US-20070035785-\$ or US-20070034782-\$ or US-20070029466-\$ or US-20070025715-\$ or US-20070019950-\$ or US-20070019102-\$ or US-20070019101-\$ or US-20060268157-\$ or US-20060266835-\$). did. or (US-20060257131-\$ or US-20060252246-\$ or US-20060244859-\$ or US-20060243884-\$ or US-20060239671-\$ or US-20060140609-\$ or US-20060231750-\$ or US-20060228103-\$ or US-20060228099-\$ or US-20060227236-\$ or US-20060221469-\$ or US-20060219862-\$ or US-20060209365-\$ or US-20060209205-\$ or US-20060204243-\$ or US-20060203875-\$ or US-20060203095-\$ or US-20060202318-\$ or US-20060197862-\$ or US-20060189216-\$ or US-20060189183-\$ or US-20060187337-\$ or US-20060181633-\$ or US-20060171701-\$ or US-20060171698-\$ or US-20060170814-\$ or US-20060164539-\$). did. or (US-20060163461-\$ or US-20060152826-\$ or US-20060152614-\$ or US-20060152576-\$ or US-20060141226-\$ or US-20060140459-\$ or US-20060139482-\$ or US-20060133794-\$ or US-20060133655-\$ or US-20060132935-\$ or US-20060132644-\$ or US-20060056042-\$ or US-20060044455-\$ or US-20060043513-\$ or US-20060042064-\$ or US-20060291853-\$ or US-20060290802-\$ or US-20060290801-\$ or US-20060289733-\$ or US-20060284053-\$ or US-20060280499-\$ or US-20060276059-\$ or US-20060270094-\$ or US-20060269268-\$ or US-20060126194-\$ or US-20060098969-\$ or US-20060125925-\$). did. or (US-20060119730-\$ or US-20060114496-\$ or US-20070071437-\$ or US-200601114344-\$ or US-20060109567-\$ or US-20060109368-\$ or US-20070058270-\$ or US-20070058271-\$ or US-20070058272-\$ or US-20060109352-\$ or US-20070053682-\$ or US-20060108352-\$ or US-20060108353-\$ or US-20070058273-\$ or US-20070058274-\$)	US-PGPUB; AND USPAT	ON	2007/09/28 08:43
6/24/2008 3:36:18 PM C:\Documents and Settings\jason\My Documents\EAST\SearchHistory\spacesset10664387(2).wsp					Page 25

## EAST Search History

S12 9	172	S128 and @ad<"20030107"	US-PGPUB; USPAT	AND	ON	2007/09/28 08:43
S13 0	24	S129 and (flash or strobe or led)	US-PGPUB; USPAT	AND	ON	2007/09/28 08:51
S13 1	277	(348/371).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/09/28 08:52
S13 2	180	S131 and @ad<"20030107"	US-PGPUB; USPAT	AND	ON	2007/09/28 08:52
S13 3	35	S132 and led	US-PGPUB; USPAT	AND	ON	2007/09/28 08:59
S13 4	2	(led or flash) adj4 "same" adj4 ("circuit board" or pcb or fcb or "flexible printed circuit") adj4 (sensor or imager or ccd or "image pickup device")	US-PGPUB; USPAT	AND	ON	2007/09/28 09:03
S13 5	4	(sensor or imager or ccd or "image pickup device") adj4 "same" adj4 ("circuit board" or pcb or fcb or "flexible printed circuit") adj4 (led or flash)	US-PGPUB; USPAT	AND	ON	2007/09/28 09:04
S13 6	0	(sensor or imager or ccd or "image pickup device") with "same" with ("circuit board" or pcb or fcb or "flexible printed circuit") with4 (led or flash)	US-PGPUB; USPAT	AND	ON	2007/09/28 09:04
S13 7	34	(sensor or imager or ccd or "image pickup device") with "same" with ("circuit board" or pcb or fcb or "flexible printed circuit") with (led or flash)	US-PGPUB; USPAT	AND	ON	2007/09/28 09:05
S13 8	17	("20020063326"   "20020090759"   "20030024635"   "20040232459"   "5376561"   "5387815"   "5500552"   "5643804"   "5821138"   "5929475"   "6331722"   "6372608"   "6376333"   "6521511"   "6645830"   "6818530"   "RE38466").PN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/09/28 09:11
S13 9	1	(led with ("image sensor" or ccd or "image pickup device")).ti.	US-PGPUB; USPAT; USOCR	AND	ON	2007/09/28 09:12
S14 0	1	(led and ("image sensor" or ccd or "image pickup device")).ti.	US-PGPUB; USPAT; USOCR	AND	ON	2007/09/28 09:12
S14 1	35	(led and ("sensor" or ccd or "image pickup device")).ti.	US-PGPUB; USPAT; USOCR	AND	ON	2007/09/28 09:15
S14 2	6727	(led adj4 connect\$4 ("sensor" or ccd or "image pickup device"))	US-PGPUB; USPAT; USOCR	AND	ON	2007/09/28 09:16
S14 3	142	(led adj4 connect\$4 adj4 ("sensor" or ccd or "image pickup device"))	US-PGPUB; USPAT; USOCR	AND	ON	2007/09/28 09:16

## EAST Search History

S14 4	87	S143 and @ad<"20030107"	US-PGPUB; USPAT; USOCR	AND	ON	2007/09/28 09:22
S14 5	0	(cell or mobile or cellular or phone or telephone) adj4 "with" adj4 (flash or strobe)	US-PGPUB; USPAT; USOCR	AND	ON	2007/09/28 09:23
S14 6	1	(cell or mobile or cellular or phone or telephone) adj4 "has" adj4 (flash or strobe)	US-PGPUB; USPAT; USOCR	AND	ON	2007/09/28 09:24
S14 7	92012	("455").CLAS.	US-PGPUB; USPAT	OR	OFF	2007/09/28 09:24
S14 8	1439	S147 and (camera or "image pickup device" or "image sensor" or ccd) and (flash)	US-PGPUB; USPAT	AND	ON	2007/09/28 09:25
S14 9	439	S148 and @ad<"20030107"	US-PGPUB; USPAT	AND	ON	2007/09/28 10:28
S15 0	1	("20020147033").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/28 10:29
S15 1	87	led same (mobile or phone or telephone or cellular or cell) same ("image sensor" or camera or "image pickup device" or ccd)	FPRS; EPO; JPO	AND	ON	2007/09/28 10:34
S15 2	42	S151 and @pd<"20030107"	FPRS; EPO; JPO	AND	ON	2007/09/28 10:34
S15 3	87	flash same (mobile or phone or telephone or cellular or cell) same ("image sensor" or camera or "image pickup device" or ccd)	FPRS; EPO; JPO	AND	ON	2007/09/28 10:34
S15 4	50	S153 and @pd<"20030107"	FPRS; EPO; JPO	AND	ON	2007/09/28 12:22
S15 5	1	("20010036845").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/28 12:22
S15 6	2	(("6753913") or ("6529237")).PN.	US-PGPUB; USPAT	OR	OFF	2007/10/01 10:50
S15 7	2	S156 and average	US-PGPUB; USPAT	AND	ON	2007/10/01 10:52
S15 8	1	S156 and dark	US-PGPUB; USPAT	AND	ON	2007/10/01 10:53
S15 9	0	"20020076960".pn. and (imag\$4 or camera)	US-PGPUB; USPAT	AND	ON	2008/06/23 10:22
S16 0	1	"6904298".pn. and (flash or led or light)	US-PGPUB; USPAT	AND	ON	2008/06/23 10:24
S16 1	1	"6060722".pn. and "60"	US-PGPUB; USPAT	AND	ON	2008/06/23 10:41
S16 2	1	"6060722".pn. and "50"	US-PGPUB; USPAT	AND	ON	2008/06/23 10:42
S16 3	1	("5861637").PN.	US-PGPUB; USPAT	OR	OFF	2008/06/23 11:15

## EAST Search History

S16 4	1	("20030122957").PN.	US-PGPUB; USPAT	OR	OFF	2008/06/23 11:15
S16 5	1	("6956616").PN.	US-PGPUB; USPAT	OR	OFF	2008/06/23 11:16
S16 6	1	("20050243198").PN.	US-PGPUB; USPAT	OR	OFF	2008/06/23 11:19
S16 7	81	(348/556.1,556.2,557,575.3).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/06/23 13:27
S16 8	4572	(455/556.1,556.2,557,575.3).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/06/23 13:27
S16 9	2367	S168 and @ad<"20030107"	US-PGPUB; USPAT	AND	ON	2008/06/23 13:28
S17 0	0	"20020006809".pn. and (camera or imag\$4 or flash or led)	US-PGPUB; USPAT	AND	ON	2008/06/23 14:18
S17 1	0	"20010034242".pn. and (camera or imag\$4 or flash or led)	US-PGPUB; USPAT	AND	ON	2008/06/23 14:24
S17 2	0	"7133691".pn. and (flash or led)	US-PGPUB; USPAT	AND	ON	2008/06/23 14:48
S17 3	0	"7130591".pn. and (camera or imag\$4 or flash or led)	US-PGPUB; USPAT	AND	ON	2008/06/23 14:49
S17 4	1	"6829490".pn. and (camera or imag\$4 or flash or led)	US-PGPUB; USPAT	AND	ON	2008/06/23 16:00